## Amendments to the Claims:

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- (Currently Amended) A battery charger comprising:
  - a variable alternating-current power supply configured to output a first alternating current of a cuntrollable power level;
  - a digital controller configured to control said power supply, the control including at least control of the power level of the first alternating current;
  - a foil-type first transformer configured to change the voltage of the first alternating current to a second alternating current; and
  - a rectifier configured to convert the second alternating current to a direct current direct-current output.
- (Original) The battery charger of claim 1, said power supply being a variable-frequency
  generator and said digital controller being configured to control the frequency of said first
  alternating current.
- (Original) The battery charger of claim 1, said charger being configured to charge at a
  plurality of direct-current output voltages.
- (Original) The battery charger of claim 3, the charger being configured to antomatically determine the voltage of the battery and supply the correct output voltage and current.
- (Original) The battery charger of claim 1, said charger being configured to charge at up to about 100 amps.
- (Original) The battery charger of claim 1, said charger being configured to charge at up to about 100 volts.
- (Original) The battery charger of claim 1, said charger further comprising a foil-type second transformer configured to supply power to said controller.
- (Original) The battery charger of claim 1, said charger further comprising a filter configured to filter said direct-current output.
- (Original) The battery charger of claim 1, said controller being configured to measure the voltage of said direct current output.